Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 4, 2025

B6;129S4-Olig1$^{tm1(cre)Rth}$/J

RRID:IMSR_JAX:011105
Type: Organism

Proper Citation

RRID:IMSR_JAX:011105

Organism Information

URL: https://www.jax.org/strain/011105

Proper Citation: RRID:IMSR_JAX:011105

Description: Mus musculus with name B6;129S4-Olig1$^{tm1(cre)Rth}$/J from IMSR.

Species: Mus musculus

Synonyms: B6.129S4-Olig1/J. B6.129S4-Olig1/J

Notes: gene symbol note: oligodendrocyte transcription factor 1||oligodendrocyte transcription factor 1|; mutant strain: Olig1||Olig1|

Affected Gene: oligodendrocyte transcription factor 1||oligodendrocyte transcription factor 1|

Genomic Alteration: targeted mutation 1; David H Rowitch

Catalog Number: JAX:011105

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: sperm

Alternate IDs: IMSR_JAX:11105

Organism Name: B6;129S4-Olig1$^{tm1(cre)Rth}$/J

Record Creation Time: 20230509T193303+0000

Record Last Update: 20240104T174942+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S4-Olig1$^{tm1(cre)Rth}$/J.

No alerts have been found for B6;129S4-Olig1$^{tm1(cre)Rth}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 10 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Fu XQ, et al. (2024) Comparative transcriptomic profiling reveals a role for Olig1 in promoting axon regeneration. Cell reports, 43(7), 114514.

Li L, et al. (2023) Nuclear import carrier Hikeshi cooperates with HSP70 to promote murine oligodendrocyte differentiation and CNS myelination. Developmental cell, 58(21), 2275.

Marechal D, et al. (2022) N-myc downstream regulated family member 1 (NDRG1) is enriched in myelinating oligodendrocytes and impacts myelin degradation in response to demyelination. Glia, 70(2), 321.

Moyon S, et al. (2021) TET1-mediated DNA hydroxymethylation regulates adult remyelination in mice. Nature communications, 12(1), 3359.

Ma Q, et al. (2020) Oligodendrocyte-specific Argonaute profiling identifies microRNAs associated with experimental autoimmune encephalomyelitis. Journal of neuroinflammation, 17(1), 297.

Chavali M, et al. (2020) Wnt-Dependent Oligodendroglial-Endothelial Interactions Regulate White Matter Vascularization and Attenuate Injury. Neuron, 108(6), 1130.

Fernández-Castañeda A, et al. (2020) The active contribution of OPCs to neuroinflammation is mediated by LRP1. Acta neuropathologica, 139(2), 365.

Voskuhl RR, et al. (2019) Gene expression in oligodendrocytes during remyelination reveals cholesterol homeostasis as a therapeutic target in multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 116(20), 10130.

Kim RY, et al. (2018) Oestrogen receptor ? ligand acts on CD11c+ cells to mediate protection in experimental autoimmune encephalomyelitis. Brain : a journal of neurology, 141(1), 132.

González-Fernández E, et al. (2018) PTEN negatively regulates the cell lineage progression from NG2+ glial progenitor to oligodendrocyte via mTOR-independent signaling. eLife, 7.